Liebert
Keeping Business In Business

DISCONTINUED PRODUCT

MONITORING SERVICE

SITENET® COMMSURE™

USER'S MANUAL

UPS
Communications

EMERSON
Network Power

Important Safety Instructions

This manual contains important safety instructions that should be followed during the installation and maintenance of this product. Please read this manual thoroughly before attempting to install or operate this product.

This equipment can be installed and operated by individuals without previous training.

The Sitenet CommSure can be used for both 120VAC and 230VAC supply voltages/loads.

For UPS installation requirements, refer to user manual supplied with the UPS. This equipment is designed for Commercial/Industrial use only. Liebert Corporation neither recommends nor knowingly sells this product for use in critical life support applications.

To reduce the risk of electric shock, do not remove the covers, as there are no user-serviceable parts inside. For service, contact a qualified technician. Follow all warnings and instructions marked on the CommSure.

To prevent the risk of fire or electric shock, install the CommSure in a temperature and humidity controlled room, free of conductive contaminants.

CAUTION: Although your CommSure has been designed and manufactured to assure personal safety, improper use can result in electrical shock or fire. To ensure safety, please observe the following rules:

- Unplug your CommSure before cleaning. Do not use liquid or aerosol cleaners. A dry cloth is recommended to remove dust from the surface of your modules.
- Do not install or operate in or near water.
- Do not place on an unstable cart, stand, or table.
- Do not place under direct sunlight or close to heat emitting sources.
- Do not place power cords in any area where it may get damaged by heavy objects.

ATTENTION: Unplug your CommSure from the receptacles and contact qualified service personnel if:

- any power cord or plug is damaged.
- liquid has been spilled on the modules.
- the fuse/circuit breakers blows/trip frequently.
- the installation does not operate correctly even when the user follows the operating instructions.

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Introduction

Congratulations on the purchase of the Liebert SiteNet® CommSure™.

The CommSure is a communications interface that permits two Liebert UPSs to function together as a redundant, high availability power system. Computers with two or more power supplies are required. Without the CommSure, false communications signals would occur, possibly causing unexpected shutdown of computer equipment. However, with a CommSure installed, computers will continue to operate as long as power is available from one UPS or both. If power is unavailable from either UPS, the SiteNet CommSure, using standard Liebert software, will automatically shut down your computer(s) in an orderly manner.

The CommSure may be rack mounted or used on a desktop.

Requirements:

- Computer(s) with dual power supplies
- Two (2) UPSs, each of which can support the entire load
- SiteNet MultiLink or SiteNet 1 Cable (not included)

Included with the SiteNet CommSure are:

- Two (2) AC input cords with NEMA 5-15P plugs for 120V UPS
- Two (2) AC input cords with IEC320-2-2/E plugs for 230V UPS
- Two (2) DB-9 communication cables
- Two (2) brackets for mounting in 19” racks
- Four (4) rubber feet
- This user’s manual and other literature

If any of the above are not included, please call the appropriate number listed on the last page of this manual.

Optional equipment for the SiteNet Commsure include:

- Two (2) brackets for mounting in 24” racks

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SiteNet CommSure Components

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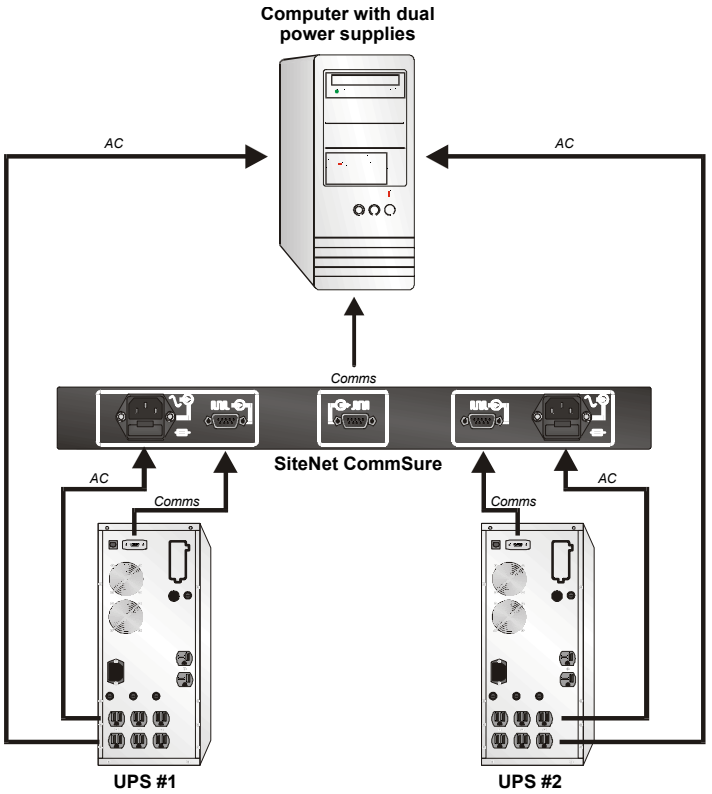
Single Computer Installation

Observe the diagram below when installing the CommSure to a single computer:



Installation Instructions

1. Shutdown computer and both UPS's. Unplug the computer and UPS's.
2. Make sure that the computer is plugged into both UPS's.
3. Using the supplied AC cables, plug cord from AC outlet on UPS to AC inlet on CommSure.
4. Using the supplied DB-9 cables, connect the UPS to the CommSure. Note: One end of the cable is labeled CommSure and should be connected to the CommSure unit.
5. Connect the center DB-9 communications port on the CommSure to the computer using a SiteNet 1 or Multilink cable (not included).
6. Plug in AC power to both UPS's. Turn on computer and UPS. Both Indicator lights on the CommSure should be illuminated.

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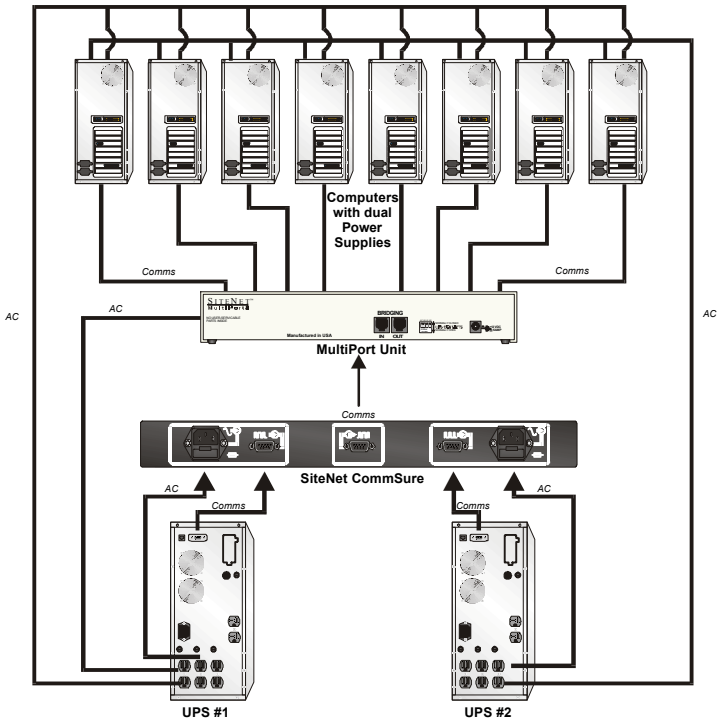
Multiple Computer Installation

Observe the diagram below when installing the CommSure to multiple computers:



Installation Instructions

1. Shutdown computer and both UPS's. Unplug the computer and UPS's.
2. Make sure that the computer is plugged into both UPS's.
3. Using the supplied AC cables, plug cord from AC outlet on UPS to AC inlet on CommSure.
4. Using the supplied DB-9 cables, connect the UPS to the CommSure. Note: One end of the cable is labeled CommSure and should be connected to the CommSure unit.
5. Connect the center DB-9 communications port on the CommSure to the computer using a SiteNet 1 or Multilink cable (not included).
6. Plug in AC power to both UPS's. Turn on computer and UPS. Both Indicator lights on the CommSure should be illuminated.

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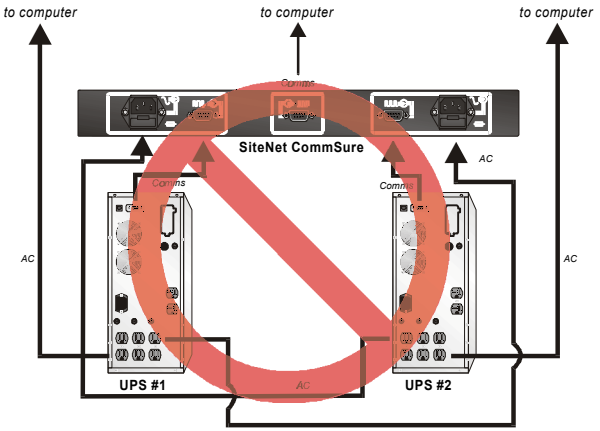
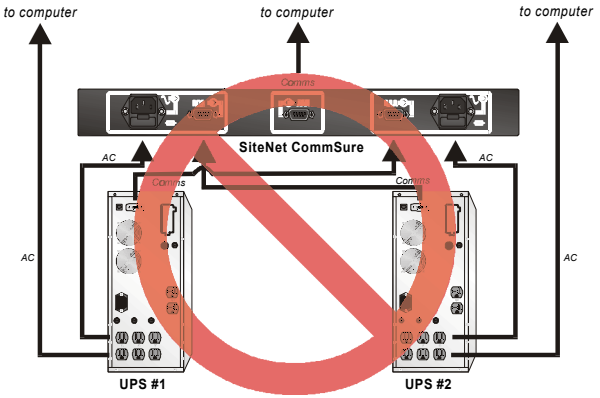
Because the CommSure merges the signals from the two UPS's, a LOW BATTERY alarm signal is not sent to the computer until one UPS has been depleted and the other UPS has reached low battery. Likewise, an AC FAIL will not occur unless both UPS's are depleted.

The CommSure will operate normally with only one UPS connected to either port, but it will assume that the absent UPS is a failed or intentionally shut off UPS.

The CommSure will ensure that your computer operates as long as power is available from one UPS. If power is not available from either UPS, CommSure will ensure that the proper shutdown signal is sent to the computer.

Attention: Although the CommSure is designed to be trouble-free, proper installation is of utmost importance. If the CommSure is not working properly after installation, please review the diagrams on the previous pages. Make sure the wires are not cross-connected as shown below:





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Specifications

MODEL	SiteNet® CommSure™
DIMENSIONS: mm (in)	
Unit W x D x H	438.2 x 130.3 x 43.7 (17.25 x 5.13 x 1.72)
INPUT AC PARAMETERS	
Voltage Range	100 – 240 V; 100 mA
Frequency	47-63 Hz
Input Power Cords	Two (2) 3 m (9,8 ft) NEMA 5-15P Two (2) 3 m (9,8 ft) IEC 320-2-2/E u. IEC 320/C13 coupler
ENVIRONMENTAL	
Operating Temperature	0°C to 40°C (+32°F to +104°F)
Storage Temperature	-15°C to +50°C (+5°F to +122°F)
Relative Humidity	0% to 95%, non-condensing
AGENCY	
Safety	UL 1778, c-UL & CE Listed
RFI/EMI	FCC Part 15, Subpart B, Class AEN 55022, Group 1, Class A
Immunity	IEEE 587 Category A IEC 801-2, Level 3IEC 801-3, Level 2 IEC 801-4, Level 2
UL Listing	File # E104756

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LIMITED WARRANTY

Liebert Corporation extends the following LIMITED WARRANTY to the purchaser and to its customer (collectively referred to as the "Purchaser"): the enclosed SiteNet CommSure and components are free from defects in materials and workmanship under normal use, service and maintenance. FOR A PERIOD OF TWO YEARS FROM THE DATE OF ORIGINAL PURCHASE from Liebert or the Liebert dealer/retailer. THE FOREGOING WARRANTY IS THE ONLY WARRANTY GIVEN AND NO OTHER WARRANTY IS PROVIDED, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Certain aspects of disclaimers are not applicable to consumer products acquired by individuals and used for personal, family or household purposes (as distinguished from industrial or other purposes). Some states do not allow limitations on how long implied warranty lasts, so the above limitation may not apply to you. The warranty gives you specific legal rights, and you may have other rights which vary according to local law.

Certain repairs or services are the responsibility of the Purchaser and the Purchaser is expected to pay for them. This warranty does not extend to any losses or damages due to misuse, accident, abuse, neglect, negligence, unauthorized modification or alteration, use beyond rated capacity, or improper installation, maintenance, application or use, including, without limitation, use in a manner contrary to the accompanying instructions or applicable codes.

If the SiteNet CommSure fails to conform with the above warranty within the two year warranty period, Liebert will repair or replace the UPS, at Liebert's option. Repairs or replacements are warranted for the remainder of the original warranty period. Purchaser, to make a warranty claim, should call 1-800-222-5877 in the United States of America or +44 (0) 1628 403200 in Europe to obtain a Return Authorization Number and shipping instructions. Return transportation costs to Liebert are the responsibility of the Purchaser.

IN NO EVENT, REGARDLESS OF THE FORM OF THE CLAIM OR CAUSE OF ACTION (WHETHER BASED IN CONTRACT, INFRINGEMENT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT, OR OTHERWISE), SHALL LIEBERT'S LIABILITY TO PURCHASER EXCEED THE PRICE PAID BY PURCHASER FOR THE SPECIFIC UPS OR OTHER GOODS PROVIDED BY LIEBERT GIVING RISE TO THE CAUSE OF ACTION. IN NO EVENT SHALL LEIBERT'S LIABILITY TO PURCHASER EXTEND TO INCLUDE INCIDENTAL, CONSEQUENTIAL, OR PUNITIVE DAMAGES. WITH RESPECT TO CONSUMER PRODUCTS, SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

"LIFE SUPPORT" POLICY

This product is not recommended, and the Liebert Corporation will not knowingly sell this product, for use with life support and other U.S. FDA designated "critical" devices. ANY SUCH USE BY A USER AUTOMATICALLY VOIDS AND DISCLAIMS ANY AND ALL WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND EXPRESS WARRANTIES THAT THIS PRODUCT WILL CONFORM TO ANY AFFIRMATION OR PROMISE, FOR THIS PRODUCT AND THE USER EXPRESSLY AGREES THAT IN NO EVENT SHALL THE COMPANY BE LIABLE FOR CONSEQUENTIAL OR INDIRECT DAMAGES

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MONITORING

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The Company Behind the Products

With over a million installations around the globe, Liebert is the world leader in computer protection systems. Since its founding in 1965, Liebert has developed a complete range of support and protection systems for sensitive electronics:

- Environmental systems—close-control air conditioning from 1 to 60 tons
- Power conditioning and UPS with power ranges from 300 VA to more than 1000 kVA
- Integrated systems that provide both environmental and power protection in a single, flexible package
- Monitoring and control—from systems of any size or location, on-site or remote
- Service and support through more than 100 service centers around the world and a 24/7 Customer Response Center

While every precaution has been taken to ensure the accuracy and completeness of this literature, Liebert Corporation assumes no responsibility and disclaims all liability for damages resulting from use of this information or for any errors or omissions.

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Technical Support/Service

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www.liebert.com

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monitoring@liebert.com
Outside the US: 614-841-6755

Single-Phase UPS
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Outside the US: 614-841-6755

Three-Phase UPS
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powertech@liebert.com

Environmental Systems
800-543-2378

Outside the United States
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